| SFEKTOR | Proteolytic property of gastric secretion in premature (MIRA 11:2) |
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| | okh.mat. i det.) ho.1.90 1. Iz akushersko-ginekologicheskogo ob yedineniya Novoshakhtinskoy gorodskoy bol'nitsy (glavnyy vrach V.I.Shklyarik) i Rostovskogo nauchno- iss ledovatel'skogo instituta akusherstva i pediatrii (nauchnyy ruko- voditel' - prof. I.Ya.Serebriyskiy, dir kandidat meditsinskikh voditel' - prof. I.Ya.Serebriyskiy, dir kandidat meditsinskikh nauk D.S.Baranovskaya) (INFANTS (PREMATURE)) |
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| Influence of the composition of food on the 2003 [60.] premature child. Vop.okh.mat.i det. 5 no.1:25-30 Ja-F (60.] l. Iz akushersko-ginekologicheskogo ob yedineniya Evoshakhtinskoy l. Iz akushersko-ginekologicheskogo ob yedineniya Evoshakhtinskoy gorodskoy bol'nitsy (glavnyy vrach F.M. Orlov) i Bostovskogo nauchno- ginsledovatel'skogo instituta kusherstva i pediatrii (dir kand. issledovatel'skogo instituta kusherstva i pediatrii (dir kand. issledov | SPECTOR, | | |
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SPEKTOR, Moisey Isaakovich; OL'SHANSKAYA, I.V., inzh., ved. red.;

L'VOV, C.V., tekhn. red.; SHVETSOV, G.V., tekhn. red.

[Economical design of dies for horizontal forging machines]

Ekonomichnaia konstruktsiia shtampov gorizontal no-kovachnykh

Ekonomichnaia konstruktsiia shtampov gorizontal no-kovachnykh

mashin. Moskva, Filial Vses. in-ta nauchn. i tekhn.informatsii,

mashin. Moskva, Filial Vses. in-ta nauchn. i red.

1958. ll p. (Peredovoi nauchno-tekhnicheskii i proizvodstven
1958. ll p. (Peredovoi nauchno-tekhnicheskii i proizvodstven
(MIRA 16:3)

(Dies (Metalworking)) (Forging machinery)

PALITSIN, Vladimir Andreyevich, inzh.; SPEKTOR, Moisey Isaakovich, inzh.; OSKOLKOV, Aleksey Ivanovich, inzh.; SAMOKHOTSKIY, A.I., inzh., ved. red.; TRUSOV, L.P., kand. tekhn.nauk, red.; SOHOKINA, T.M., tekhn. red.

[High-temperature double-chamber electric furnace for heating stamping billets] Vysokotemperaturnaia dwukhkameraaia elektristamping billets] Vysokotemperaturnaia billets] Vysokotemperaturnaia dwukhkameraaia elektristamping billets] Vysokotemperaturnaia elektristamping billets] Vysokotemperaturnaia elektri

SHAIAY, K.M., podpolkovnik meditsinskoy slushby; GUMENYUK, A.S., podpolkovnik meditsinskoy slushby; SPETOR, M.B., podpolkovnik meditsinskoy slushby

Remarks on Professor D.E.Rosenblium's article on the "Main problems in the field of acceleration physiology." Voen.—med. shur. no.5:

91 My '56.

(AVIATION MEDICINE)

SPEKTUR, M. N., (Lieutenant Colonel of the Medical Service and Candidate of Medical Sciences)

"The Prophylaxis of Difficulty in Hearing in Connection with Inflammation of the Middle Ear"

Voyenno-Meditsinskiv Zhurnal, No. 12, December 1961, pp 62-73

| disorders in fliers. Voenmed.zhur. no.9:84 S '61. (MIRA 15:10) (HEARING) (AVIATION MEDICINE) | | | | | | | • | | | | s | _ | | | : 1 | ٦, | | 1 0 6 | | 11 | 1 | me the | d | ev | rel | op. | ne | nt | 61 | ſ | he | ar | | | | | | | | |
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| SPEKT | OR, M. N., pod | polkovnik meditsi | nskoy sluzhby, ka | and. med. nauk | |
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| | Tool for F 61. | cutting | pottery | clay | blocks. | Stel | k. i | ker. | 18 (мі | no. RA 1 | 2:38 4:3) | 3-39 1 | |
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ZAKHARIKOV, N.A.; NAYDENOV, V.V.; BLOKH, S.A.; SOLDATOV, G.A.; LEVITSKIY, V.K.; KUZNETSOV, V.V.; SPEKTOR, M.P.

Radiation gas drying of structural ceramic products. Stek. i (MIRA 15:7) (Tiles--Drying)

SOLDATOV, G.A.; LEVITSKIY, V.K.; KUZNETSOV, V.V.; SPEKTOR, M.P.; POKUTNYY, N.P.; KHAINSON, A.M.

Gas radiation dryers. Stek.i ker. 21 no.12:26 D *64. (MIRA 18:3)

SOLDATOV, G.A.; LEVITSKIY, V.K.; KHAINSON, A.M.; KUZNETSOV, V.V.; SPEKTOR, M.P.

Drying of mettlach tiles in radiation driers. Stek. 1 ker. 22
no.3:33-35 Mr '65.

SOLDATOV, G.A.; LEVITSKIY, V.K.; KHAINSON, A.M.; KUZNETSOV, V.V.;

SPEKTGR, M.P.

Assembly line for the manufacture of shaped objects. Stek. 1
ker. 22 no.12:33-35 D '65.

1. Khar'kovskiy plitochnyy zavod.

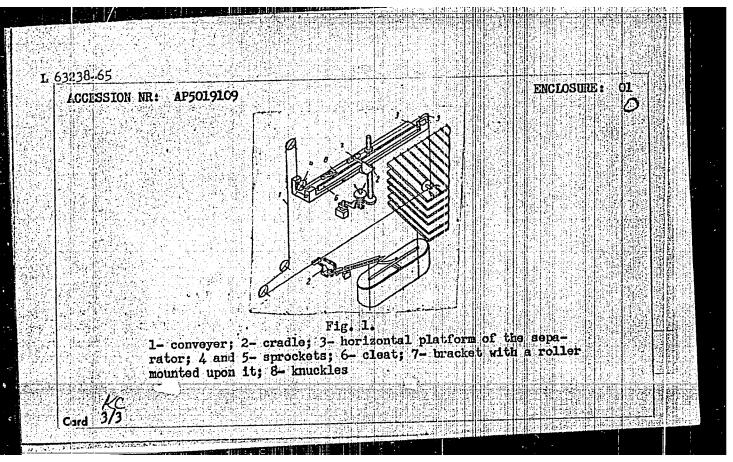
P Pests of Wood USSR / General and Specialized Zoology. Insects. and Buildings. : Ref Zhur - Biologiya, No 16, 1958, No. 73735 Abs Jour : Padiy, N. N.; Spektor, M. R. Author : Not given : The Use of DDT in Sanitary Felling to Destroy Trunk Inst Title Pests : Lesn. khoz-vo, 1958, No 6, 84 Orig Pub : Pine logs 30 - 48 cm. in diameter, which were completely infested with engraver beetles and partially with Abstract pine beetles, were sprayed with a 5% solution of DDT in diesel oil when about 10% of the larvae had stopped feeding, but the pupae were not yet formed. After 2 weeks, the logs were stripped. As a result all larvae perished; 36.7% of the pupae and adult beetles perished in logs with bark 3 - 5 cm. thick; 88.4%, with Card 1/2 33

| SPEK ************************************ | | | SHKINA, Dina A | Aleksendrovna; OCF, red.; KISZLEVA, | |
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| | tekhn.F | ed. cial equipment | ; handbook] | Porgovvi inventar | |
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UR/0286/65/000/012/0135/0135 L 63238-65 ACCESSION NR: AP5019109 AUTHORS: Shenker, L. I.; Spektor, M. Ye. TITLE: A device for arranging rye and wheat bread in a storage compartment with grooved inclined shelves. Class 81, No. 172232 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 135 TOPIC TAGS: food, food product machinery, food technology ABSTRACT: This Author Certificate presents a device for arranging rye and wheat bread in a storage compartment with grooved inclined shelves (see Fig. 1 on the Enclosure). The device consists of a mechanism for individual feeding of loaves, a lifting-lowering separator, and a chain conveyer with cradles for individual a lilling-lowering separator, and a chain conveyer with crades for including feeding of loaves. To improve its productivity and simplify its construction, the lifting-lowering separator is placed under the horizontal portion of the conveyer with cradles and is made in the form of a horizontal platform carrying (at its ends) sprockets for the horizontal portion of the conveyer and a rotary latituding cleat held edgering in its original resistion. longitudinal cleat held edgewise in its original position, serving as a support for the conveyer cradles. These cradles are hinged to the links through brackets carrying rollers. To produce a nore positive rotation of the cleat under the weight of the oncoming cradles loaded with loaves, at the moment of discharging Cord 1/3

| 38-65 ACCESSION NR: AP5019109 | | in and at the |
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| t the necessary number of | d shelves the cleat is spring- he cleat in a vertical position cradles, knuckles are proper es act upon the lateral face of obile support. Orig. art. ha | the cleat, whose idle |
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| SVET-MO | IDAUGKIY G.Ya.: SP | EKTOR, N.M.; RAVKINA, L.I. | Vest AMN SSSR |
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| [The party as the organizer of workers patronage of the rural areas, 1923-1933] Partiia-organizator shefstva rabochikh nad derevnei (1923-1933 gg.). Moskva, Gos. izd-vo politalit-ry. [MIRA 11:5) 1957. 198 p. (Agriculture) | areas, 1923-1933 Fartila-organization derevned (1923-1933 gg.). Moskva, Gos. izd-vo politalit-ry. (MIRA 11:5) | areas, 1923-1933] Fartila-Olgania, Gos. izd-vo politelit-ry, derevnei (1923-1933 gg.). Moskva, Gos. izd-vo politelit-ry, (MIRA 11:5) |
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SHASHKOV, A. N.; SPEKTOR, O. Ch.; ASINOVSKAYA, G. A.

"Influence of thermal cutting under metal on section borders"

paper presented at 18th Annual Assembly, Intl Inst of Welding, Paris, 5-10 Jul. 1965.

SPEKTCR, O. SH.

USSR/Metals - Flame Cutting, Equipment

Jun 50

Equipment for Oxygen-Flux Cutting of Chromium and Chrome-Nickel Steels," S. G.

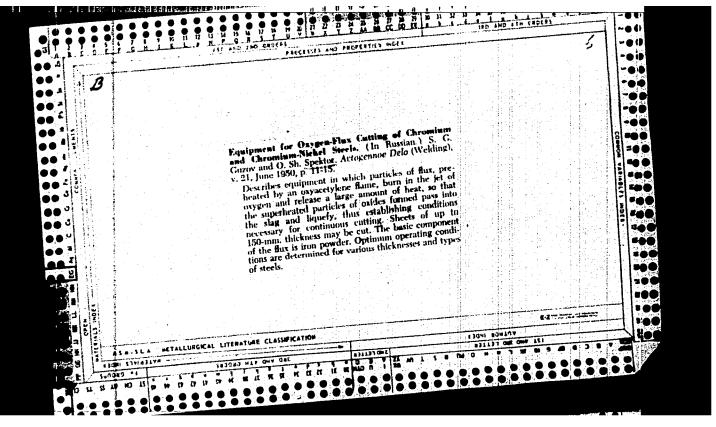
Guzov, O. Sh. Spektor, Engineers, 4 pp

"Avtogen Delo" No 6

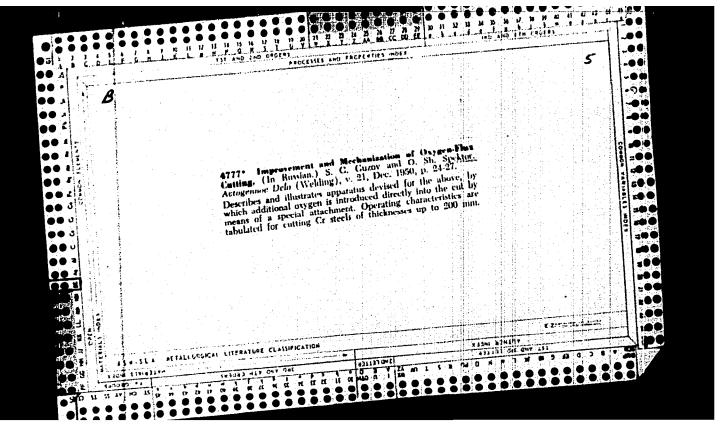
Suggests method for cutting stainless and heat-resistand steels. Flux in powdery form is introduced into stream of cutting oxygen and, being burned, liberates great amount of heat. Overheated oxide particles liquefy slag which, running down, exposes base metal, thus creating conditions for continuous process. Describes equipment and recommends flux FKh-l, basic component of which is granular iron rowder.

PA 161T97

| SPEKTOR O. SH. | | USSR/Metals - Gas Cutting (Contd) Dec portable machine for oxygen cutting may be east converted to oxy-flux cutting and reconverted to ordinary cutting. | Navtogen Delo" No 12, pp 24-27 Describes modified hand cutting torch which, increasing feed of flux, ing oxygen feed without decreasing feed of flux, raises cutting speed 1.5-2 times. Modification is raises cutting speed 1.5-2 times. Modification is guisting speed and consists of additional injector and resultating walve. With aid of this type torch and guisting walve. With aid of this type torch and specially designed new flux feeder, any stationary apecially designed new flux feeder. | Use, Aetals - Gas Cutting "Improvement and Mechanization of Oxy-Flux Cutting," "Improvement and Mechanization of Oxy-Flux Cutting," S-G-Guzov, O. Sh. Spektor, Engineers, VNIIAVIOUS S-G-Guzov, O. Sh. Spektor, Engineers, VNIIAVIOUS N-GAIL-Union Sci Res Inst-of-Welding and Cutting of Metals) |
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SPECTOR, O. SH.

USSR/Engineering - Welding, Flame Cutting | Sep 51

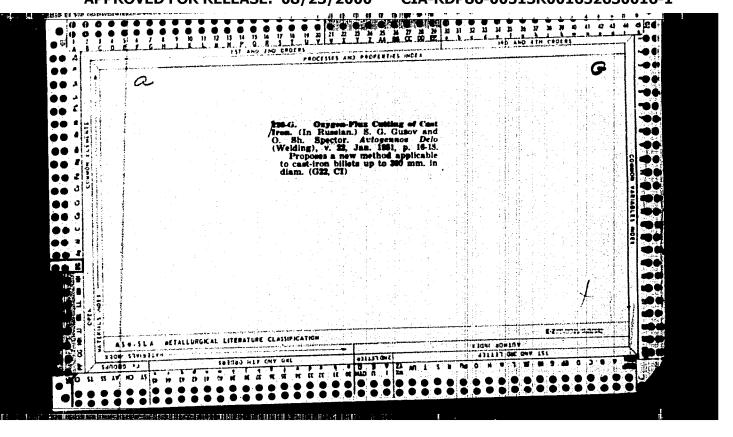
"Surface Oxygen-Flux Cutting of High-Chrome Steels," S. G. Guzov, O. Sh. Spector, Engrs, VNIIavtogen

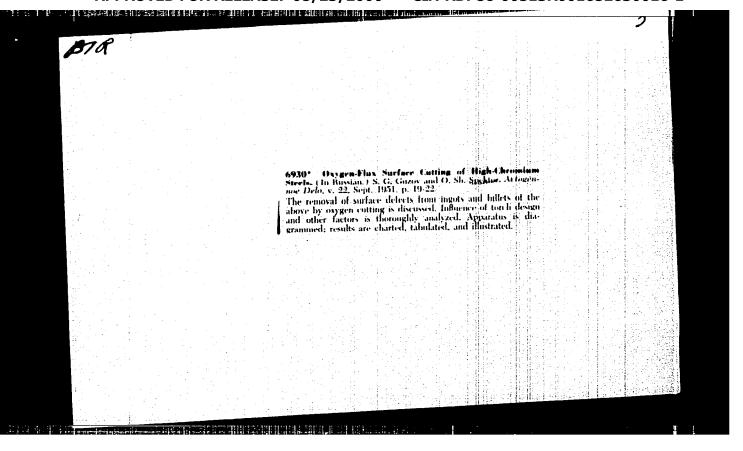
"Avtogen Delo" No 9, pp 19-22

Describes cutting torch RPKF-2 which, in addn to ordinary injector for supplying acetylene, has in its head injecting device fed with oxygen-flux mixt and addnl cutting oxygen. In surface prepn of chrome and chrome-nickel ingots for rolling, surface oxygen-flux cutting has production capacity at least 3 times that of elec-arc cleaning.

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| 183-194 '53. (Gas welding and cutting) (Monferrous metals) | (Gas velding and cutting) | فنجان | SPEKTOR, | =0:ggen | ütti ng (| of noi | nferrous | metals. | , Trudy | VHILAVE (MIR. metals) | ogen L 12 | no.1:10) | |
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| | | | | Now Apparatus | for Cutting Cast Ire | n. O. Sh. Spektor. | |
| | Journal of | f the Iron and | Steel Institu | Liteinoe Proizvods | tvo, 1953, 3, (1), 15). xygen-flux method to | n. O. Sh. Spektor- [In Russian]. The cast iron is described. no as that for high- | |
| | Vol. 176 | Part 3 | | The type of appa | ratus used is the sar | no as that for high- | |
| | Mar. 1954 | | | chromium steels a process resembles | nd non-terrous meta that for low-carbon | ls, while the cutting steel.—s. K. | |
| | Welding an | nd Flame-Cutting | ng | | | | |
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SPEKTOR, O. SH.

4508. Ustanovka urr-600 dlya ruchnoy rezki stalitolshchinoy ot 300 do 600 MM. Kislorodom nizkego davlyeniya (M.), 1954. 8S. Fill. 22 SM. (Vsesoyuz nauch. - 183 led. in-T autogennoy obrabotki metallov iniiavtogen glavkisloroda mkhp SSER. Inform. Listok Mo. 52). 2.500 EKZ B. TS. - SCST. Ukazan v podstroch. primech - bez tit. 1. i obl. - (54-15866zh) 621.791.5.054

SO: Knizhaya Letopis, Vol. 1, 1955

GUZOV, S.G.; SPEKTOR, O.Sh.

Investigating the process of thick steel severing by low pressure oxygen. Trudy VNIIAvtogen no.3:125-158 '55. (MIRA 11:12) (Gas welding and cutting—Equipment and supplies)

| l. Vsesoyuznyy nauchno-issledovatel skiy institut avtogennoy obrabotki metallov. (Gas welding and cutting) (SteelMetallurgy) | no.11:1042-1048 N 56. 1. Vsesoyuznyy nauchno-issledovatel skiy institut avtogennoy | Oxygen cutting of | steel in | continuous | tecming | plants. | Stal* 16 (MIRA 10:1) | |
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ANTONOV, I.A., kand tekhn.nauk; ANTOSHIN, Ye.V., inzh.; ASINOVSKAYA, G.A., inzh.; VASIL'YEV, K.V., kand.tekhn.nauk; GUZOV, S.G., inzh.; DEYKUN, V.K., inzh.; ZATTSEVA, V.P., inzh.; KAZHEKOV, P.P., inzh.; KAZHEKOV, P.P., inzh.; KAZHEKOV, P.P., inzh.; KAZHEKOV, P.S., kand.tekhn.nauk; KOROVIN, A.I., inzh.; KRZIEGIROVSKIY, A.K., inzh.; KUZMETSOVA, Ye.I., inzh.; MAYURINY, J.B., tekhnik; MOROZOV, M.Ye., inzh.; MECRASOV, Yu.I., inzh.; MECHAYEV, V.D., kand.tekhn.nauk; MINBURG, A.K., kand.tekhn.nauk; SPERTOR, O.Sh., inzh.; STRIZIEVSKIY, I.I., kand.khim.nauk; TESMENTSKIY, D.Y., inzh.; KHROMOVA, TS.S., inzh.; TSEUNEL', A.K., Inzh.; SHASHKOV, A.N., kand. tekhn.nauk, dots.; SIELIZCHBIK, M.M., inzh.; SHUKEMAN, D.Ya., inzh.; KDEL'SOH, A.M., inzh.; VOLODIN, V.A., red.; UVAROVA, A.F., tekhn.red.

[Machines and apparatuses designed by the All-Union Institute of Autogenous Working of Metais] Machiny i apparty konstrukteii
VNIIAvtogen. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1957. 173 p. (Moscow. Vsesoluznyi nauchno-iseledovatel'skii institut avtogenomi obrabotki metallov, no.9)

(Gas welding and cutting-Equipment and supplies)

137-58-2-3251

SPEKTOR, O.SH

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 143 (USSR)

Spektor, O.Sh.

AUTHOR:

Investigation of the Fundamental Parameters of Oxygen Cutting in Conjunction With Continuous Pouring of Steel (Issledovaniye TITLE:

osnovnykh parametrov kislorodnov rezki pri nepreryvnov

razlivke stali)

PERIODICAL: Tr. Vses. n.-i. in-ta avtogen. obrabotki metallov, 1957, Nr.

4, pp 3-33

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The technology of the cutting (C) process and the equipment permitting C of steel in a horizontal position under the conditions ABSTRACT:

prevailing during continuous production of steel, with cutting proceeding at the rates required by the process, are described. A classification of steels of various grades is given in terms of cutability (relative to cold C), and nomographs of the major parameters of the process of C of a hot billet to a depth of 100-300 mm are plotted. The major peculiarities of C of a hot billet consist of the following: 1) the C process attains greatest stability when the cutter is started in motion along the

line of cut at a 40-50 percent reduced C speed simultaneously

Card 1/2

137-58-2-3251

Investigation of the Fundamental Parameters of Oxygen Cutting (cont.)

with the turning on of the C O₂; 2) a stream of O₂ at an angle of 92-930 makes it possible to start C "on the run" with an initial speed about 10-20 percent below the normal; 3) in C of steel 150-200 mm thick, the distance between the orifice and the metal being cut should be 70-100 mm; 4) horizontal C of cold metal is possible under the same conditions as ordinary C in the lowered position, on condition that the unit flow of O₂ per unit length be increased by 150-200 percent; 5) at constant flow of O₂ and an increase in the temperature of the metal to 1000°C as compared to the C of metal having a temperature of 300-500°C; 6) an increase in the temperature of metal prior to C impairs somewhat the quality of the surface of the cut and increases the amount of adhering slag and also fusion of the edges, but on the other hand it increases the stability of the process; 7) to assure stability of the process of "hot" C, it is necessary to increase the power of the pre-heat flame, and this flame must have a small excess of C₂H₂, so as to increase the length of the flame.

1. Gas cutting--Applications 2. Steel--Processing

G.K.

Card 2/2

SPEKTOR, U.Jh.

SUBJECT:

USSR/Welding

135-4-15/15

AUTHORS:

Guzov. S.G., and Spektor, O. Sh.

TITLE:

Remarks to the Review by K.K. Khrenow and A.D. Kotvitskiy "To the Problem of Cutting Thick Sections with Low-Pressure

Oxygen" ('Svarochnoye Proizvodetvo" No 3, 1957). (Zamechaniya po retsenzii K.K. Khrenova, M.M. Borta i A.D. Kotvitskogo "K voprosu o rezke bol'shikh tolshchin kislorodos nizkogo davleniya", "Svarochnoye Proizvodstvo", # 3, 1957).

PERIODICAL:

"Svarochnoye Proizvodstvo", # 4, pp 29-30 (USSR). 1937

ABSTRACT:

The article represents remarks to statements made by K.K. Khrenov and A.D. Kotvitskiy, which the authors regard as con-

tradictory or downright wrong.

The authors present their own conclusions on the criticized points: the proper oxygen pressure and the proper shape of the nozzle; effect of a slow oxygen stream in cutting materials of over 200-300 mm thickness; the proper pressure at the nozzle inlet and the effect of the size and shape of nozzle bores. Not stated.

ASSOCIATION: PRESENTED BY:

SUBMITTED: AVAILABLE: Card 1/1

At the Library of Congress

SPEKTOR, Oyzer Shmulevich; RAGAZINA, M.F., inzh., ved. red.; SHTERLING, S.Z., dots., red.; SOROKINA, T.M., tekhn. red.

[Arc and gas cutting of stainless steel] Dugovaia i gasovaia rezka nerzhaveiushchel stali. Moskwa, Filial Vses. in-ta nauchn. 1 tekhn. informatsii, 1958. 30 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi oppt. Tema 12, No.M-58-190/18) (MIRA 16:3)

(Electric metal cutting)

(Gas welding and cutting)

SOV/2281 PHASE I BOOK EXPLOITATION 25(1)Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obra-

botki metallov

Kislorodnaya rezka i svarka (Oxygen Cutting and Welding) 268 p. (Series: Its: Trudy, vyp. 5) Mashgiz, 1959. slip inserted. 4,800 copies printed.

Ed.: A.N. Shashkov, Candidate of Technical Sciences; Ed. of Publishing House: G.N. Soboleva; Tech. Ed.: V.D. El'kind; Managing Ed. for Literature on Heavy Machine Building: S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for engineers, technicians, scientists, designers, and students of vtuzes. The book may be used for improving operational methods of oxygen and gas metalworking.

านาโรร์สมาชิส คลอดเลโดยการเกิด เราโดย เป็นของเกิดเกิด การเหลื่อเลย และได้เดย

COVERAGE: This book contains articles on theoretical investigations of oxygen cutting and welding and problems related to the gas-

Card 1/7

Oxygen Cutting and Welding

SOV/2281

flame treatment of metals. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

- Kurlovich, Yu. V. [Engineer]. Designing a Tracer Mechanism for Photocell-Copying Systems
 The author presents the results of a theoretical investigation of the determination of data of tracer-measuring instrumion by computation. A comparative evaluation is included.
- Guzov, S.G. [Engineer]. Investigating Parameters of Preheating

 Flame in Oxygen Metal Cutting
 The author discusses the importance of the preheating flame
 in oxygen metal cutting and determines the optimum operatin oxygen metal cutting and determines the optimum operational and constructional parameters for nozzles for oxygen
 cutting of steel 5 to 200 mm. in thickness.

Spektor, O. Sh. [Engineer]. Methods of Calculating Metal-base Fluxes for Oxygen Cutting of High-chromium Steel 97

Card 2/7

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| | sumption at its Exit From Cylindrical Nozzles of Cutting Torches The author investigates this problem and reac ximate value of the µ-coefficient by determin tionship between the diameter of the nozzle o oxygen pressure, and the condition of the noz | hes an appro- ing the rela- rifice, the | 191 | |
| | Asinovskaya, G.A. [Engineer], and N.M. Zelikovsk Gas Soldering and Welding With BM-1 Gaseous Flux The author discusses the process developed in ries, and the equipment used. | | 200 | |
| | Strizhevskiy, I.I. [Candidate of Chemical Science Zaytseva [Engineer]. Preparation and Properties Flux The author gives technological data of methyl methanol flux and makes recommendations for p to prevent hydrolysis. | borate- | 221 | |
| - | Strizhevskiy, I.I., and V.P. Zaytseva Stabilizin | g Acetylene | 229 | |
| | Card 4/7 | | | |

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| Kozlovskiy, A.I [Engineer]. De Polyamide Powde | | | S TOP FIRST | | 263 | |
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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001652630016-1"

507/135/59-4-6/18

18 (7) 25 (1)

AUTHOR:

Spektor, O. Sh., Engineer

TITLE:

The Effect of Flux Composition on the Physical and Chemical Properties of the Slag in Oxy-Acetylene Cutting of Stainless Steel (Vliyaniye sostava flyusa pri kislorodno-flyusovoy rezke nerzhaveyushchikh staley na fiziko-khimicheskiye

· svoystva shlaka)

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 4, 22 - 25 (USSR)

ABSTRACT:

The article presents the results of an experimental investigation in which information was obtained on the structure of the chrome compounds formed in slag during the oxy-acetylene cutting of stainless steel. The absence of data on this matter was the major obstacle for the proper choice of flux composition. The flux used for the investigation was composed of iron powder in accordance with the method described in Reference 1. The flux of quartz sand and calcites were also studied. The slags obtained were chemically and petrographically investigated. The chemical composition of

Card 1/3

SOV/135-59-4-6/18

The Effect of Flux Composition on the Physical and Chemical Properties of the Slag in Oxy-Acetylene Cutting of Stainless Steel

the chrome compounds in 10 kinds of slag (Table 1) is given and micro-photographs are included. The conclusions made are the following: 1) chrome was present in the slag in the form of chromite-type compounds; 2) the earlier supposition (Ref. 1) was justified namely that if flux is being fed by double-injection, the quantity of readily meltable compounds at the cutting spot must be such that the chrome oxide content in the slag mass does not exceed 15%; 3) the best cutting results are obtained with an addition of 5 to 10% aluminum to the iron powder. It raises the specific heat of flux burning and lowers the melting point of the slag formed in the process; 4) an addition of silicocalcium or a mixture of silicocalcium with aluminum entails a considerable widening of the cut. The oxygen stream being consumed quickly, the supply has to be considerably raised or the cutting speed has to be slowed down; 5) the cutting efficiency drops abruptly when quartz sand is used for flux. This is due to the higher viscosity of the forming slags, caused by the presence of a considerable

Card 2/3

SOV/135-59-4-6/18

The Effect of Flux Composition on the Physical and Chemical Properties of the Slag in Oxy-Acetylene Cutting of Stainless Steel

quantity of silicon dioxide in addition to the presence of high-melting chrome oxides. Experiments were made at cutting the 40 mm steel sheet "IKh18N9T". Cutting was made at steady expenditure of gas and flux. Contents of flux and cutting regimes are indicated in table 1. There are 3 tables, 5 microphotographs, 3 graphs, and 2 Soviet references.

ASSOCIATION: VNIIAVTOGEN.

Card 3/3

CIA-RDP86-00513R001652630016-1 "APPROVED FOR RELEASE: 08/23/2000

s/135/59/000/012/003/006 A115/A029

AUTHOR:

Sh. Engineer Spektor, 0.

Transformation of Composition and Structure in the Cut Zone

of Austenite and Semiferrite Steels TITLE:

PERIODICAL:

Svarochnoye proizvodstvo, 1959, No. 12, pp. 9 - 12

To find out the behavior of alloying elements in the zone of oxygen cuts, 10 different grades of steel were tested, of which the components and characteristics are shown in Tables 1 and 2. The flux was composed of 0.2 % C, 0,5 % Mn, 0.5 % Si and 95.5 % Fe. The structure of steel in the zone of thermal influence of the cut undergoes marked changes increase in the grain size, hardening, tempering of the hardened layer. Cracks do not appear in the austenite steels because these steels are not subjected to transformation phase and subsequent cooling during the cut. In the case of semiferrite steels, martensitic structure appearing at the edge of the cut is relatively deficient in hardness due to the low content of carbon and does not cause much strain. It has been experimentally proved that during the oxygen cutting the edges of the cut extending 0.5 mm inward lose alloying elements. Changes in the layer adjoining the

Card 1/2

S/135/59/000/012/003/006 A115/A029

Transformation of Composition and Structure in the Cut Zone of Austenite and Semiferrite Steels

cut are explained by processes of heterogeneous diffusion causing reduction of alloying elements. The degree of these changes depends on the chemical composition of the steel, on the heat employed and on the quantity of slag generated. To remove the damaged layer, grinding of the surface of the cut is advisable. There are 5 graphs, 4 tables, 3 figures and 3 Soviet references.

ASSOCIATION: VNIIAvtogen (All-Union Scientific Research Institute Oxyacety-

Card 2/2

VLADIMIRSKIY, T.A., doktor tekhn.nauk; VROBLEVSKIY, R.V., inzh.; GLEBOV, L.V., inzh.; GODIN, V.M., kand.tekhn.nauk; GUZOV, S.G., inzh.; GULYAYEV, A.I., inzh.; YERSHOV, L.K., inzh.; KOCHAHOVSKIY, N.Ya., kand.tekhn.nauk; LYUBAVSKIY, K.V., prof. doktor tekhn.nauk; PATON, B.Ye., akademik, prof., doktor tekhn. nauk; RABINOVICH, I.Ya., kend.tekhn.nauk; RADASHKOVICH, I.M., inzh.; RYKALIN, N.N., prof., doktor tekhn.nauk; SPEKTOR, O.Sh., inzh.; KHRENOV, K.K., akademik, prof., doktor tekhn.nauk; CHERNYAK, V.S., inzh.; CHULOSHNIKOV, P.L., inzh.; SHORSHOROV, M.Kh., kend.tekhn.neuk; BRATKOVA, O.N., prof., doktor tekhn.neuk, nauchnyy red.; ERINBERG, I.L., kand.tekhn.nauk, nauchnyy red.; GEL MAN, A.S., prof., doktor tekhn.nauk, nauchnyy red.; KOHDRATOWICH, V.M., inzh.; nauchnyy red.; KRASOVSKIY, A.I., kand.tekhn.nauk, nauchnyy red.; SKAKUN, G.T., kand. tekhn. nauk; nauchnyy red.; SOKOLOV, Ye.V., inzh., red.; IVANOVA, K.N., inzh., red.izd-va; SOKOLOVA, T.F., tekhn.red.

> [Welding handbook] Sprayochnik po svarke. Moskva. Gos.nauchnotekhn.izd-vo mashinostroit.lit-ry. Vol.1. 1960. 556 p. (MIRA 14:1)

1. AN USSR (for Paton, Khrenov). 2. Chleny korrespondenty AN SESR (for Rykalin, Khrenov).

(Welding-Handbooks, manuals, etc.)

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5/788/60/000/006/001/004 E202/E492

AUTHOR:

TITLE:

The effect of flux composition on the physico-chemical Spektor, O.Sh., Engineer properties of slag formed during oxygen cutting of

SOURCE:

Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut avtogennoy obrabotki metallov. Trudy. no.6: 1960. Kislorodnaya rezka, metallizatsiya, payka. 26-34

Slags formed during oxyacetylene cutting of 40 mm thick sheets of the stainless steel 1X18H9T (1Kh18N9T) were investigated using basically three types of fluxes, viz PeO, FeO-Al₂O₃ and SiO₂-CaO-FeO. The components of these fluxes were calculated on the basis of iron powder according to a method described by the author in an earlier paper. Details of flux compositions and all the principal working parameters of the cutting process including the upper and lower width of the cut are included together with the chemical and petrographic analy of the resulting slags. It was found that addition of 10% aluminium powder to the iron powder increased the rate of Card 1/2

S/135/60/000/008/008/010 A006/A002

AUTHORS:

Spektor, O.Sh., Folomkin, B.I., Engineers

TITLE:

The "YOXC -4" (URKhS-4) Installation for Oxygen-Flux Cutting of

Stainless Steel

PERIODICAL:

Svarochnoye proizvodstvo, 1960, No. 8, pp. 33-35

TEXT: Installations for the oxygen-flux cutting of stainless steel, developed during the past years, operate mainly on the system of double flux injection (the "JPXC -3" (URKhS-3) installation, designed by VNIIAVTOGEN), on the system of single-duct flux feed under high pressure (the "JPC-2" (UFR-2) machine designed by MVTU imeni Bauman) and on the system of external flux feed. A comparison of the cutting speeds and the specific flux consumption obtained in operation on these systems is given. (Figures 2 and 3). It appears from these graphs that installations operating on an external flux feed ensure a cutting efficiency raised by a factor of 1.5 - 2 and a flux consumption reduced by a factor of 2 - 4, compared to indices for the URKhS-3 and UFR-2 installations. The URKhS-4 machine was developed for oxygen-flux cutting with external flux feed and oxygen as a flux-bearing gas. The system of the installation is shown (Figure 4) and its

Card 1/3

S/135/60/000/008/008/010 A006/A002

The "YPXC -4" (URKhS-4) Installation for Oxygen-Flux Cutting of Stainless Steel

operational features are described. The use of external flux feed to the cutter, made it possible to simplify the design of the flux feeder and to employ cutters used in conventional oxygen cutting of low-carbon steel. Moreover, the use of a cyclone flux feeding device ensured the accurate dosage of small amounts of powder supplied to the area of cutting. Speeds of cutting stainless steel, attained on the "URKhS-4" machine exceed those of the URKhS-3 machine by a factor of 1.8-2.3; they may be compared to speeds of cutting low-carbon steel of the same thickness. The higher speeds are achieved by increased oxygen consumption without a higher flux consumption, by a smaller width of the oxidation reaction front, and by the intensified fluxing of oxides. The specific flux consumption of the URKhS-4 machine was by 2-4 times lower than that of the URKhS-3 machine due to a finer grain size of the flux (less than 0.15 mm) and a better distribution of the flux over the cutting area. As a result the cost of material per 1 running meter of cut was reduced by a factor of 1.3-2. The "BM" (VM) iron powder of the following composition is recommended for use on the URKhS_4 machine: 94-96% Fe (total); 0,4% C; 1.2% Si; 0.5% Mn; 0.06% S; 0.05% P. The loose weight is 2.1-2.3 g/cm³. Experiments performed with optimum initial values were used to establish some analytical dependences for the main parameters of the process such

Card 2/3

S/135/60/000/008/008/010 A006/A002

The "YPXC -4" (URKhS-4) Installation for Oxygen-Flux Cutting of Stainless Steel

as the cutting speed, the optimum oxygen consumption, the cutting flame power and the average width of the cut. Average conditions for cutting "1 × 18 H9T" (1Kh18N9T) steel on the URKhS-4 machine, corresponding to the presented formulae, are given in a table. There are 1 table and 6 figures.

ASSOCIATION: VNIIAVTOGEN

Card 3/3

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S/788/62/000/008/002/003

Spektor, O.Sh., Engineer. AUTHOR:

Investigations of the effect of oxygen-flux cutting on the composition, structure, and properties of the metal near the surface of the cut.

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy TITLE: obrabotki metallov. Trudy. no.8. 1962. Gazoflyusovaya naplavka i SOURCE:

svarka, kislorodnaya rezka, metallizatsiya. pp. 72-84.

The selective oxidation of the elements in the reaction space of oxygen cutting of carbon steel modifies the composition of the metal along the edge of the cut. It may be of interest to introduce alloying elements into the cutting zone of austenitic and semiferritic steels to control the resulting changes. Metallographic and chemical studies were performed on specimens on which O-flux cutting had been done on cold metal and on metal heated to 140-250°C. The flux powder consisted of BK (VK) iron containing (in %): 0.2 C, 0.5 Mn, 0.5 Si, and 95.5 Fetotal. The chemical compositions of the steels cut and the procedural cutting parameters employed are tabulated. Structural changes were observed in the cutting zone, comprising an overheated structure directly adjacent to the cut and a transitional structure between the overheated structure and the parent metal. A tabulation shows that the depth of the zone of the thermal effect depends on the procedural parameters, but the depth of the overheat zone depends on the chemistry and the thermo-physical properties of the metal subjected to cutting. In NiCr steel, the Card 1/3

Investigations of the effect of oxygen-flux cutting... S/788/62/000/008/002/003

overheat region evinced a weakly-etchable band (illustrated by photo) in which prolonged electroetching in 10% oxalic acid revealed a dendritic structure characteristic of cast metal. In extremely high-Cr steels the overheated area has a finely acicular structure (photo). The Hy hardness of the martensitic layer next to the cut edge is 400, increases to 630 at 1.5 mm depth, decreases to 320 at 5 mm depth (probably owing to self-anneal), and transits into troostite. Spectrum analysis reveals a significant alteration of the alloying elements at and near the cut edge (to 0.3 mm depth), depending primarily on the degree of preheating of the metal prior to O-flux cutting. Analyses made on steels X17 (Kh17) and 1X13 (1Kh13) are shown. Cr, Mn, and Si burn out readily; in Mark-18-8 steels the upper edge is enriched with Ni, the concentration of which diminishes as the cutting jet penetrates the depth of the metal. The Ni concentration in the exit zone of the jet amounts to about 55-95% of that in the parent metal. Preheating facilitates the burn-out of alloying elements. The resulting change in composition reduces the stability of the austenite in NiCr steels, since the martensite-transformation temperature is raised thereby. The causes engendering the change in chemical composition are sought. The iron powder introduced burns up in the O stream and raises the temperature, whereupon: (1) The high solubility of the alloying elements facilitates their transition from the cut edge into the slag and back; also, the alloying elements in the steel transit from regions with lower temperature to regions with higher temperature,

Card 2/3

Investigations of the effect of oxygen-flux cutting... S/788/62/000/008/002/003

where their solubility is greater. This conclusion was substantiated by cutting two packeted plates conjointly, one of 1Kh18N9T and one of CT.3 (St.3). The low-C steel underwent Ni enrichment at the cutting edge. This phenomenon can only be explained by Ni diffusion from the slag. (2) The abrasive action of the fast-moving flux particles and the removal thereby of the refractory oxides formed on the contact surface. (3) The mechanical mixing in the cutting zone of the parent metal and the powder with various concentrations of alloying elements and their strong oxidation due to the high O excess. Speedier cutting reduces the time of contact of the liquid slag with the cutting edge and minimizes diffusional exchanges. An interpretation of the resulting process as occurring in two-phase system appears justified by experimental evidence. In view of the impairment of the physico-chemical characteristics of the metal near the cut edge it is recommended that 0.5 mm of the material near the edge be removed by grinding. There are 9 figures and 7 tables, also 7 references (6 Russian-language Soviet and 1 English-language: Stark, L.E., Bishop, C.R. Corrosion resistance of powder-cut stainless steels. The Welding Journal, v.28, no.3, 1949).

ASSOCIATION: None given.

Card 3/3

SPEKTOR, O.Sh., VASIL'YEV, K.V., kand.tekhn. nauk, retsenzent;
RAGAZINA, M.F., inzh., red.; UVAROVA, A.F., tekhn. red.;
MAKAROVA, L.A., tekhn. red.

[Oxygen-flux cutting of stainless steel]Kislorodno-fliusovala rezka nerzhaveiushchikh stalei. Moskva, Mashgiz, 1962. 159 p.

(Ges welding and cutting)

(Ges welding and cutting)

| [Through and skin oxygen cutting under flux] Rasdelitel nais poverkhnostnaia kisloredno-fliusovaia reska. Moskva, Mashgis, 1963. 93 p. (Bibliotechka avtogesahchika, no.8) (MIRA 16:8) (Gas wedling and cutting) | SPEKTOR, O |).Sh.; SHASHKOV , A | .N., kand. tekhn.nauk, | red.; SOBOLEVA, | |
|---|------------|--|--|---|--|
| (Gas wedling and cutting) | | [Through and skin i poverkhnostnaia gis, 1963. 93 p. | oxygen cutting under fi kisloredno-fliusovaia (Bibliotechka avtogeta | lux] Rasdelitel'naia reska. Moskva, Mash- hchika. no.8) | |
| | | (Gas wed | ling and cutting) | | |
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SPEKTOR, O.Sh., inzh.; ASINOVSKAYA, G.A., inzh.; Prinimali uchastiye:
BELOVA, Ye.V., inzh.; SEMENOVA, A.S., inzh.

Studying the nature and conditions of changes in the structure and chemical composition of St.3 steel at the surface of a cut.
Trudy VNIIAvtogen no.9:19-32 '63.

(MIRA 16:12)

STOLPER, Ye B., inzh.; ALIFANOV, P.F., inzh.; SPEKTOR, O.Sh., inzh.;

SUKHININ, G.K., inzh.

Oxygen-flux cutting of stainless steel risers. Svar. proizv.
no.9:32-33 S '64. (MTRA 17:12)

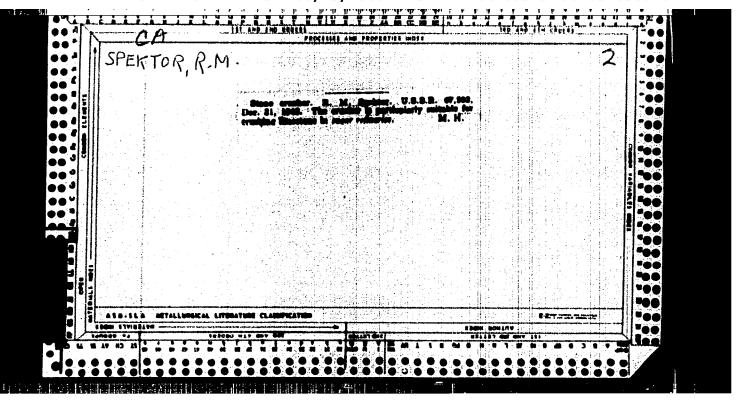
1. Moskovskiy zavod "Serp i molot" (for Stolper, Alifanov).
2. Vsesoyuznyy neuchno-issledovatel'skiy institut avtogennoy obrabotki metallov (for Spektor, Sukhinin).

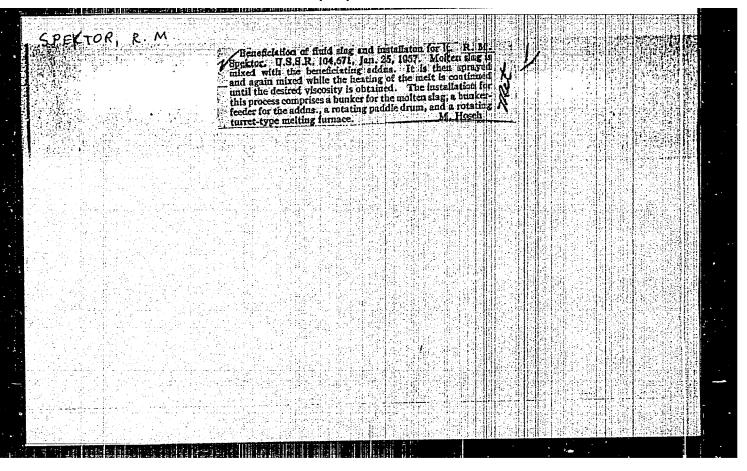
| SPEKTOR, 0.Sh., inzh. Oxygen flux cutting of high chromium steel. Svar.proizv. no.11:32-35 (MIRA 18:1) N '64. 1. Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov. | SPEKTOR | R, O.Sh., inzh. | | • | oknomi | um ste | el. S | Svar. | proizv. | no.1 | 1:32-35 | |
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| l. Vsesoyuznyy nauchno-issledovatelisky metallov. | Service and a great processing | Oxygen flux cu N *64. | tting of | hign | GULORI | . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 | ina | t.i.tut | avtoge | unoy (Min | oprapotki Test) | |
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| SPEKTOR | , 0.Sh., inzh. | | | | | | |
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| | Temperature of cutting. Trudy | preheating VNIIAVTOGEN | structural MASH no.12 | steel :62-67 | prior to (| oxygen 18:11) | |
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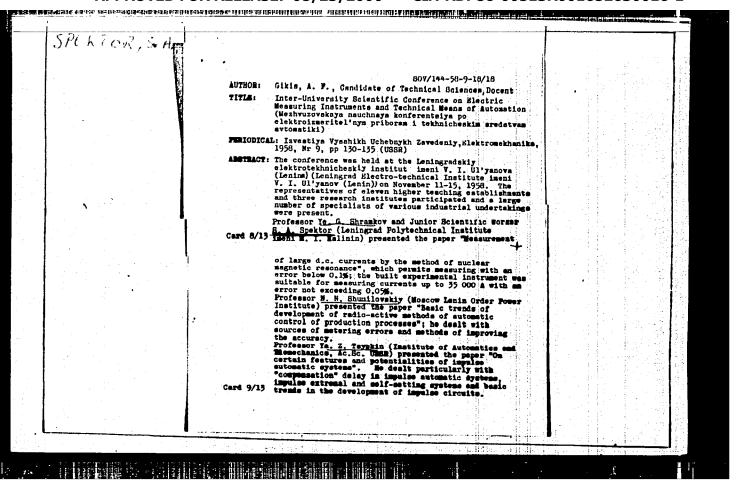




SPEKTOR, R.P., inzh.; EL'KINSON, P.A., inzh.

Modernizing the support unit for the "Pel's" crank press flywheel.

Mashinostroenie no. 2:56 Mr-Ap '64. (MIRA 17:5)



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Translation from: Referativnyy zhurnal, Fizika, 1960, No. 5, p. 187, # 11597

AUTHOR:

Spektor, S.A.

TITLE:

The Errors in the Method for Measuring High-Intensity Direct Cur-

rents by Using the Nuclear Magnetic Resonance

PERIODICAL:

Nauchno-tekhn, inform, byul, Leningr, politekhn, in-t, 1959, No. 3,

pp. 33-44

TEXT: The errors in the method of measuring high-intensity direct currents are calculated; this method was proposed earlier (RZhFiz, 1958, No. 8, # 18238). The author suggests to eliminate susceptibility corrections for cylindric specimens by introducing paramagnetic ions into the specimen's structure, which compensate the diamagnetic susceptibility. Experiments substantiated the possibility of producing specimens having zero-susceptibility. Methods are suggested for excluding the influence of external fields. According to the author's calculations, the main error of the method does not exceed 0.05%. This result was

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The Errors in the Method for Measuring High-Intensity Direct Currents by Using the Nuclear Magnetic Resonance

substantiated experimentally. The guaranteed accuracy amounts in the author's opinion to 0.1%.

N.M. Pomerantsev

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

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S/058/60/000/005/004/008 A005/A001

Translation from: Referativnyy zhurnal, Fizika, 1960, No. 5, p. 187, # 11596

AUTHORS:

Zorin, D.I., Spektor, S.A.

TITLE:

The Determination of the Constants of a Measurement Unit for

Measuring High-Intensity Direct Currents by the Nuclear Magnetic

Resonance Method M

PERIODICAL:

Nauchno-tekhn, inform, byul, Leningr, politekhn, in-t, 1959, No. 3.

pp. 45-47

TEXT: The authors propose a method of calibrating primary transducers for measuring high-intensity direct currents by the nuclear magnetic resonance method. They use the comparison of measurement units designed for various ranges of currents to be measured. The advantage of the method consists in the fact that it does not require the exact measurement of the geometric dimensions of the transducers and, consequently, their precise treatment.

N.M. Pomerantsev

Translator's note: This is the full translation of the original Russian abstract.

SPECTOR, S. A., METHOD AND EQUIPMENT FOR MEASURING
HEAVY DIRECT CURRENTS DEVICES UNDER HUGLEAR MAGNETIC
RESONANCE." LENINGRAD, 1961. (COM OF STANDARDS, MEASURES, AND MEASURING DEVICES UNDER THE COUNCIL OF MINISTERS USSR, WILL-UNION SCI RES INST) OF METROLOGY
IN D. I. MENDELEYEV). (KL, 3-61, 220).

262

L 17859-66 EWT(m)/EWA(d)/EWP(e)/EWP(t) JD

ACC NR: AT6005073

SOURCE CODE: UR/2563/65/000/256/0056/0057

AUTHOR: Zaytsev, V.I.; Spektor, S. A.

40

ORG: Leningrad Polytechnic Institute im. M. I. Kalinin (Leningradskiy politekhnicheskiy institut)

TITLE: Compensation device with a frequency output for the measurement of magnetic induction of constant magnets (

SOURCE: Leningrad. Politekhicheskiy institut. Trudy, no. 256, 1965. Tsifrovyye izmeritel'nyye i upravlyayushchiye ustroystva (Digital measuring and control devices), 56-57

TOPIC TAGS: NMR, magnetic induction, magnetic field measurement

ABSTRACT: Magnetic systems with radial magnetic fields are used in magnetoelectric high accuracy devices (0.1; 0.2). To study the temperature characteristics of such systems the magnetic induction should be measured with errors not exceeding 0.01 — 0.02%. This is within the capabilities of the NMR method, but it was difficult to apply

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L 17859-66

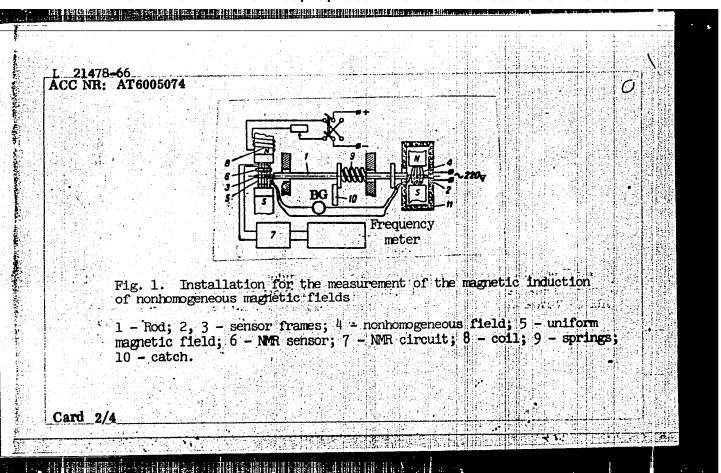
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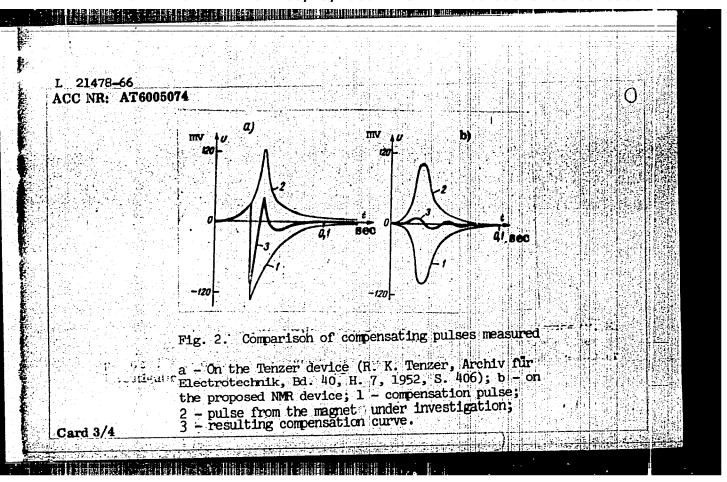
lit in the past in narrow gaps with a large field inhomogeneity. The present article discusses a compensation method of measurement (Avt. svid. No 165823, Byulleten', 1964, No 20) based on the use of two torques of two magnetoelectric mechanisms. One torque is created by the interaction of a current conducting coil and the magnetic field under investigation, and the other is generated by another coil carrying the same current but placed in a uniform magnetic field the induction of which can be smoothly varied and the magnitude of which is determined very accurately by NMR. When using the ChZ-4 frequency meter, the error of which did not exceed 0.001%, the overall error of induction determination was 1.7·10⁻³%. Orig. art. has: 8 formulas and 1 figure.

SUB CODE: 14, 20/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 001

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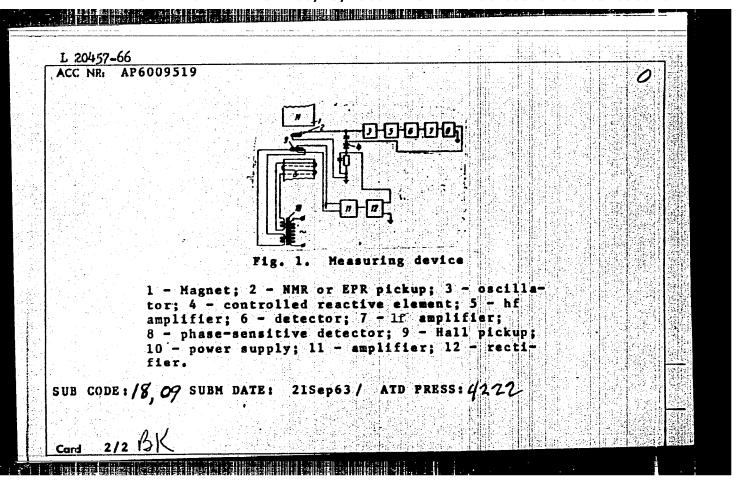
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| AUTHOR: Zaytsev, V. I.; Spektor, S | | | 54 BH |
| ORG: Leningrad Polytechnic Institute institut) TIPLE: Measurement of nonhomogene wide temperature range by the NMR | ous magnetic field | 6. 【15.】 4. P. Marker 11. 16. 對於對語句 24.3 | |
| SOURCE: Leningrad. Politekhniches izmeritel'nyye i upravlyayushchiye us 58-61 | kiy institut. Trudy troystva (Digital me | | |
| TOPIC TAGS: magnetic field measur | | 医二氏性结节炎 医乳球菌素 医乳球菌素 医二甲二苯甲基二苯甲基二苯甲基二苯 | · · · · · · · · · · · · · · · · · · · |
| ABSTRACT: The accurate determination gaps and varying temperature of the present article describes a device nuclear magnetic resonance methods. magnetic induction in gaps of 1 inhomogeneities and a wide temperature coefficient | The device, show | mbination of the zer in Fig. 1, c the presence of a | o ballistic and an register rbitrary field for the deter- |
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| L | L 20457-66 |
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| £ | AUTHOR: Spektor, S. A. ORG: none |
| 5 | TITLE: Device for investigations by the nuclear magnetic resonance of electron paramagnetic resonance methods. Class 21, No. 179375 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 40 |
| | ropic TAGS: nuclear magnetic resonance, electron paramagnetic resonance, electronic measurement |
| 2 t | ABSTRACT: The proposed device consists of a Hall pickup mounted in the gap of a magnet, an hf oscillator with a controlled reactive element in the oscillatory circuit, a detector, an amplifier, and a phase-sensitive detector. In order to automate the measuring processes over a wide range of magnetic induction and to reduce static error, the Hall pickup is connected through the amplifier and the rectifier to the controlled |
| 2 | reactive element. The latter is connected to the output of the phase- sensitive detector. A block diagram is shown in the figure. Orig. art. has: 1 figure. [DW] Cord 1/2 UDC: 538.711:539.1.075 |



| ACC NR: AT6011936 | SOURCE CODE: UR/0000/66/000/000/0163/0167 | . , |
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| AUTHOR: Ivanova, V. Ya, | (Leningrad); Spektor, S. A. (Leningrad) | |
| ORG: none | 31/ | |
| TITLE: The frequency-digit | tal method for thickness determination | |
| SOURCE: Vsesoyuznaya kon | nferentsiya po avtomaticheskomu kontrolyu i metodam elektri- | |
| cheskikh izmereniy, 5th. A | vtomaticheskiy kontrol' i metody elektricheskikh izmereniy; trudy 'nyye informatsionnyye sistemy. Ustroystva avtomaticheskogo | |
| kontrolva. Elektricheskive | izmereniya neelektricheskikh velichin (Automatic control and | |
| electrical measuring technic | nues, transactions of the conference, v. 2: Information measure- | |
| ment systems. Automatic c quantities). Novosibirsk, Iz | ontrol devices. Electrical measurements of nonelectrical | |
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| TOPIC TAGS: NMR, quality | control, analog digital converter, and converter is the state of the s | |
| nuclear physics apparate ABSTRACT: The fact that the | here are many different methods for the continuous industrial | |
| measurement of the thickness | as of products which are accessible from one side only seems to | |
| indicate that probably none of | of them is completely satisfactory. Consequently, to improve on rements and yet keep the size of the necessary devices within | |
| reasonable limits, the autho | rs developed a new method based on nuclear magnetic resonance. | |
| The unit, requiring access t | to the sample from only one side, yields the results in digital | |
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L 31534-66 EWT(1) IJP(c) GD SOURCE CODE: UR/0000/66/000/000/0233/0236

AUTHOR: Zaytsev, V.I. (Leningrad); Spektor, S.A. (Leningrad)

ORG: none

TITLE: A method for the accurate measurement of inhomogeneous magnetic fields in a wide range of temperature

SOURCE: Vsesoyuznaya konferentsiya po avtomaticheskomu kontrolyu i metodam elektricheskikh izmereniy, 5th. Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy; trudy konferentsii, t. 2: Izmeritel'nyye informatsionnyye sistemy. Ustroystva avtomaticheskogo kontrolya. Elektricheskiye izmereniya neelektricheskikh velichin (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Information measurement systems. Automatic control devices. Electrical measurements of nonelectrical quantities). Novosibirsk, Izd-vo Nauka, 1966. 233-236

TOPIC TAGS: NMR, magnetic field measurement, measuring instrument

The second of th

ABSTRACT: The high accuracy requirement imposed on the measurements of widely varying magnetic fields and the great variety of circumstances under which magnetic induction measurements must be performed made it necessary to combine the classical compensation method of field measurements (ballistic induction) with the modern methods of nuclear magnetic resonance. The new method, described in the article, is based on a comparison of the emf pulse from the search coil during its removal from the inhomogeneous field being measured with the emf pulse generated in a second search coil pulled out of a uniform magnetic field, the

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| magnetic induction of prototype device can 0.01%. The propose gradients. Orig. at | I III CE | he also used fo | or the determin | accuracy ss, with a nation of | by the NMR unit in error not exc magnetic field | . The seding |
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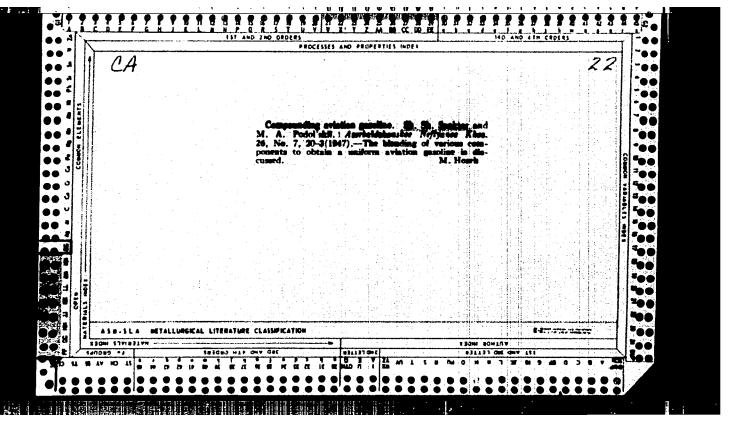
SOURCE CODE: UR/0115/66/000/007/0078/0001 ACC NR: AP6026952 AUTHOR: Levinzon, D. I.; Medvedev, P. D.; Spektor, S. A. GRO: none TITLE: Automatic device for measuring resistivity of semiconductor ingots by the 4-probe method SCURCE: Izmeritel'naya tekhnika, no. 7, 1966, 78-81 TOPIC TAGS: semiconducting material, semiconductor research, physics laboratory instrument, electronic test againment, resistarity ABSTRACT: The measuring 4-probe head continuously rolls over the surface of an ingot. Each probe consists of a 0.08-mm thick steel disk; the spacing between the disks is 1.30 ± 0.01 mm. A 2-transistor current stabilizer ensures a constant value of 0.816 ma at all times; the resistivity is measured by the conventional compensation method. The resistivity scale spans used are: 0-500, 0-1500, 0-4500, and 0-7500 ohms.m; a principal circuit is shown. Some results of automatic measurements made with the above device were compared with the results obtained from a conventional tungstenneedle 4-probe head-operated device; the difference was found to be within 1-- 那. It is claimed that the automatic method has generally a lower error and a higher resolution than the manual method. Orig. art. has: 2 figures, 2 formulas, and [03] 2 tables. SUB CODE: 09 / SUBM DATE: none / ORIO REF: 002 / OTH REF: 001 UDC: 621.317.83:621.315.592 Card 1/1

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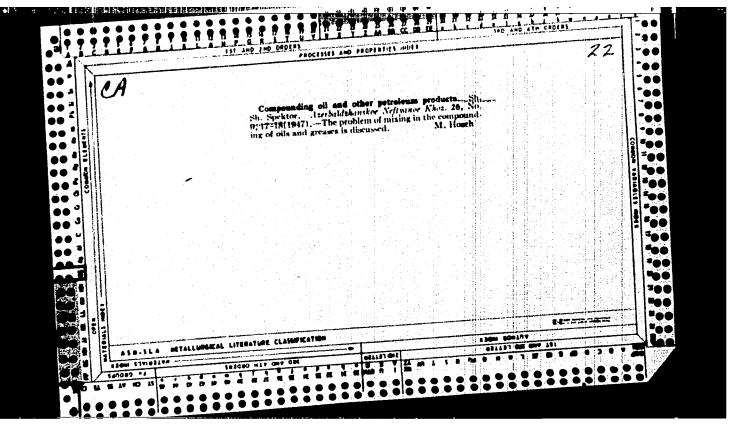
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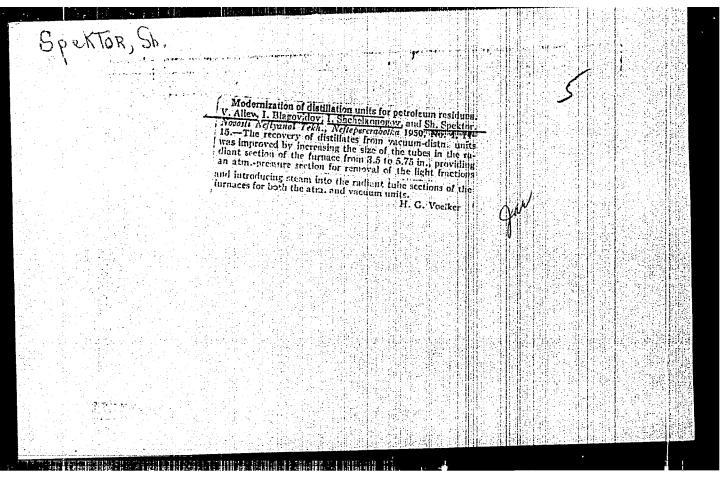
| TREGER, Yu.A.; FLID, R.M.; ANTONOVA, L.V.; SPEKTOR, S.S. Complex formation of allyl chloride and allyl alcohol with monovalent copper salts. Zhur.fiz.khim. 39 no.11:2831-2835 (MTRA 18:12) N *65. | ver to D. M. | <u> </u> | a, S.S. | | |
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SPEKTOR, Sh. Sh. and BIAGOVIDOV, I. F.

"Fight Against Losses of Petroleum Products at Oil Refineries," a chapter of the pok "Operation of Oil Refineries," published by Baku, Azer. Branch, Gostoptekhizdat, 1951.

pages 190-195

Translation D 257880, 27 Jun 55

SPEKTOR, SH. SH.

BLAGOVIDOV, I.F.; SPEKTOR, Sh.Sh.; UDALYY, A.M., vedushchiy redaktor;

VOLOKH, S.M., professor, redaktor; ISMAYLOV, R.G., dotsent, redaktor

[Operation of oil refineries] Eksploatatsiia neftepererabatyvaiushchikh zavodov. Pod red. S.M.Volokha i R.G.Ismailova. Baku, Gos.
nauchno-tekhn. izd-vo neftianoi i gorno-tiplovnoi lit-ry.
Azerbaidzhanskoe otd-nie, 1951. 199 p. [Microfilm] (MLRA 7:10)
(Petroleum-Refining)

KORCHAGINA, V.I.; KARDASH, I.N.; SPEKTOR, Sh.Sh., red.; MIKHAYLOVA, N.V., tekhn.red.

[Losses of petroleum products in petroleum refineries and mesus of combating them] Poteri nefteproduktov na neftepererabatyvaiu-shchikh zavodakh i bor'ba s nimi. Baku, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, Azerbaidzhanskoe otd-nie, 1953. 62 p.

(Petroleum products)

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GONCHARVUK, V.A.; SPEKTOR, Sh.Sh., redaktor; KADYRLI, A.M., tekhnicheskiy redaktor

[Fire prevention measures at petroleum refineries] Protivoposharnye meropriiatiia na neftepererabatyvaiushchith ravodakh. Baku, Gos. nauchno-tekhn. izd-vo neftianci i gorno-teplivnoi lit-ry, Azarbaidzhanskoe otd-nie, 1954.167 p. [Microfilm] (MIRA 7:10)

(Petroleum industry—Fires and fire prevention)

OFSKING, Sh. Sh.

"Chemistry and Petroleum Conversion" by R. G. Ismailov and Sh. Sh. Spektor, Azer. Neft. Khoz., January 1956.

In view of the rising demand for solar fractions needed for the Diesel and heavy motor fuel production certain suggestions are made in this article as to how the petroleum fractionation could be intensified and labor efficiency raised. It is proposed to install for this purpose an auxiliary vacuum vaporizer attached to the atmospheric unit.

SO: Translation D527577

ISMAYLOV, R.G.; SPEKTOR, Sh.Sh.; GUTYRYA, V.S. Evaluating the degree of utilization of raw materials by operating crews of oil refineries. Azerb.neft.khoz.35 no.7:27-29 J1 56.

(Petroleum-Refining)

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| Tekhnologiia i mekhanisatsiia proisvodstva neftebitumov. Baku, Azerbaidshanskoe gos.isd-vo neft.i nauchno-tekhn.lit-ry, 1957. 180 p. (MIRA 11:1) (Petroleum) (Bitumen) | Azerbaidshanskoe gos.isd-vo neft.i nauchno-tekhn.lit-ry, 1957. 180 p. (MIRA 11:1) | | Sh.Sh., r | ail Alekper ogly; FA ed.; AL'TMAN, T.B., gy and mechanization | red. izd-va. | ction of petro | leum bitumen] | |
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